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Human Coch-5B2 cDNA Sequence

1 GCACTCGGGC GCAGCCGGGT GGATCTCGAG CAGGTGTGAG CAGCCTATCA GTCACCATGT CCGCAGCCTG GATCCCGGCT CTCGGCCTCG GTGTGTGTCT GCTGCTGCTG CCGGGGCCCG CGGGCAGCGA GGGAGCCGCT CCCATTGCTA TCACATGTTT TACCAGAGGC TTGGACATCA GGAAAGAGAA AGCAGATGTC CTCTGCCCAG GGGGCTGCCC TCTTGAGGAA TTCTCTGTGT ATGGGAACAT AGTATATGCT TCTGTATCGA GCATATGTGG GGCTGCTGTC CACAGGGGAG TAATCAGCAA CTCAGGGGGA CCTGTACGAG TCTATAGCCT ACCTGGTCGA GAAAACTATT CCTCAGTAGA TGCCAATGGC ATCCAGTCTC AAATGCTTTC TAGATGGTCT GCTTCTTTCA CAGTAACTAA AGGCAAAAGT AGTACACAGG AGGCCACAGG ACAAGCAGTG TCCACAGCAC ATCCACCAAC AGGTAAACGA CTAAAGAAAA CACCCGAGAA GAAAACTGGC AATAAAGATT GTAAAGCAGA CATTGCATTT CTGATTGATG GAAGCTTTAA TATTGGGCAG CGCCGATTTA ATTTACAGAA GAATTTTGTT GGAAAAGTGG CTCTAATGTT GGGAATTGGA ACAGAAGGAC CACATGTGGG CCTTGTTCAA GCCAGTGAAC ATCCCAAAAT AGAATTTTAC TTGAAAAACT TTACATCAGC CAAAGATGTT TTGTTTGCCA TAAAGGAAGT AGGTTTCAGA GGGGGTAATT CCAATACAGG AAAAGCCTTG AAGCATACTG CTCAGAAATT CTTCACGGTA GATGCTGGAG TAAGAAAAGG GATCCCCAAA GTGGTGGTGG TATTTATTGA TGGTTGGCCT TCTGATGACA TCGAGGAAGC AGGCATTGTG GCCAGAGAGT TTGGTGTCAA TGTATTTATA GTTTCTGTGG CCAAGCCTAT CCCTGAAGAA CTGGGGATGG TTCAGGATGT CACATTTGTT GACAAGGCTG TCTGTCGGAA TAATGGCTTC TTCTCTTACC ACATGCCCAA CTGGTTTGGC ACCACAAAAT ACGTAAAGCC TCTGGTACAG AAGCTGTGCA CTCATGAACA AATGATGFGC AGCAAGACCT GTTATAACTC AGTGAACATT GCCTTTCTAA TTGATGGCTC CAGCAGTGTT GGAGATAGCA ATTTCCGCCT CATGCTTGAA TTTGTTTCCA ACATAGCCAA GACTTTTGAA ATCTCGGACA TTGGTGCCAA GATAGCTGCT GTACAGTTTA CTTATGATCA GCGCACGGAG TTCAGTTTCA CTGACTATAG CACCAAAGAG AATGTCCTAG CTGTCATCAG AAACATCCGC TATATGAGTG GTGGAACAGC TACTGGTGAT GCCATTTCCT TCACTGTTAG AAATGTGTTT GGCCCTATAA GGGAGAGCCC CAACAAGAAC TTCCTAGTAA TTGTCACAGA TGGGCAGTCC TATGATGATG TCCAAGGCCC TGCAGCTGCT GCACATGATG CAGGAATCAC TATCTTCTCT GTTGGTGTGG CTTGGGCACC TCTGGATGAC CTGAAAGATA TGGCTTCTAA ACCGAAGGAG TCTCATGCTT TCTTCACAAG AGAGTTCACA GGATTAGAAC CAATTGTTTC TGATGTCATC AGAGGCATTT GTAGAGATTT CTTAGAATCC CAGCAATAAT GGTAACATTT TGACAACTGA AAGAAAAAGT ACAAGGGGAT CCAGTGTGTA AATTGTATTC TCATAATACT GAAATGCTTT AGCATACTAG AATCAGATAC AAAACTATTA AGTATGTCAA CAGCCATTTA GGCAAATAAG CACTCCTTTA AAGCCGCTGC CTTCTGGTTA CAATTTACAG TGTACTTTGT TAAAAACACT GCTGAGGCTT CATAATCATG GCTCTTAGAA ACTCAGGAAA GAGGAGATAA TGTGGATTAA AACCTTAAGA GTTCTAACCA TGCCTACTAA ATGTACAGAT ATGCAAATTC CATAGCTCAA TAAAAGAATC Corrected Replacement Sheet Page 2 of 9 Morton et al. 09/394,264

TGATACTTAG ACCAAAAGCA ACATTCGTTC TCTAACCATT CTGTATTGAT TATATAAGCA AAATGAAAAG AGAAACTTAA ATGAACACAG CTCTTTAACA TGGTTCAGGT ACACATATTT TGACCCAAGT GGATATTTTC TTAAAACCAA TCAATAATAG CTAGCTATTA CTGCAGACTA TAAAATCTGG ATATAGAAAG GAGACCTGTA TCAAACTGCT TTTGTAGTGT GTTTTCATAA CAACTTATGA CTAAAAATAT CACACTGAAT AAGAGAGCAG GATTGCCAGG TATTTTCTA TTTCTCTCTCT TAATTTTATA TGTATATAGA TATATTTGGC TTATATTCTA AGTCACCTAA GTACTTAAAA GTTAAGTTGG TAAAGTATTT ACTGACTGCT TATAAACATT TAAAGACAAA GACATTTCAA ATAACTGCAG AAAAAATATT GTAGTTTGAA TATTTAAGCA ATAAAACTGC TAGTGAGTTA TTGT

FIG. 1B

Human Coch-5B2 Amino Acid Sequence

1 MSAAWIPALG LGVCLLLLPG PAGSEGAAPI AITCFTRGLD IRKEKADVLC PGGCPLEEFS VYGNIVYASV SSICGAAVHR GVISNSGGPV RVYSLPGREN YSSVDANGIQ SQMLSRWSAS FTVTKGKSST QEATGQAVST AHPPTGKRLK KTPEKKTGNK DCKADIAFLI DGSFNIGQRR FNLQKNFVGK VALMLGIGTE GPHVGLVQAS EHPKIEFYLK NFTSAKDVLF AIKEVGFRGG NSNTGKALKH TAQKFFTVDA GVRKGIPKVV VVFIDGWPSD DIEEAGIVAR EFGVNVFIVS VAKPIPEELG MVQDVTFVDK AVCRNNGFFS YHMPNWFGTT KYVKPLVQKL CTHEQMMCSK TCYNSVNIAF LIDGSSSVGD SNFRLMLEFV SNIAKTFEIS DIGAKIAAVQ FTYDQRTEFS FTDYSTKENV LAVIRNIRYM SGGTATGDAI SFTVRNVFGP IRESPNKNFL VIVTDGQSYD DVQGPAAAAH DAGITIFSVG VAWAPLDDLK DMASKPKESH AFFTREFTGL EPIVSDVIRG ICRDFLESQQ 551 *

FIG. 1C

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Mouse Coch-5B2 cDNA Sequence

1 CGGAGCCGCG CTTGCCGCAC TCGGGTGTAG CCGGGCGGAT CCCACGCAGG TCCACGGAGA TCCTCGCCAT GCCCTCGTCC AGGATCCCTG CTCTCTGCCT CGGTGCGTGG CTGCTGCTGC TGCTGCTGCC CCGGTTCGCG CGCGCCGAGG GAGCGGTTCC CATTCCTGTC ACCTGCTTTA CCAGAGGCCT GGATATCCGA AAAGAGAAAG CAGATGTTCT CTGCCCAGGA GGCTGCTCTC TTGAGGAATT CTCTGTGTTT GGGAACATAG TGTATGCGTC AGTGTCCAGC ATCTGCGGCG CTGCTGTCCA TAGGGGAGTG ATTGGCACCT CAGGGGGACC TGTGCGTGTC TACAGCCTTC CTGGTCGAGA GAACTACTCC TCGGTAGATG CCAACGCAT CCAGTCTCAG ATGCTTTCCC GATGGTCCGC GTCCTTCGCT GTGACCAAAG GCAAAAGCAG TACCCAGGAA GCCACAGGAC GGGCAGTGTC CACAGCCCAC CCACCTTCAG GTAAAAGACT AAAGAAGACA CCAGAGAAGA AGACTGGCAA CAAAGACTGT AAGGCAGACA TTGCATTTCT CATTGATGGA AGCTTCAATA TTGGGCAGCG CCGATTTAAT TTGCAGAAGA ATTTTGTTGG GAAAGTGGCA CTAATGTTGG GAATTGGAAC AGAAGGACCA CACGTGGGTC TCGTTCAAGC CAGTGAACAC CCCAAAATAG AATTTTACTT GAAAAACTTT ACTTCAGCCA AAGATGTCTT GTTTGCCATA AAAGAAGTAG GTTTCCGAGG GGGTAACTCC AACACAGGAA AAGCCTTGAA GCACACTGCT CAGAAATTCT TTACAGCAGA CACTGGTGTG AGAAAAGGAA TACCAAAAGT GGTGGTAGTG TTTATTGATG GTTGGCCCTC TGATGACATT GAGGAAGCAG GCATTGTGGC CAGAGAGTTT GGTGTCAATG TATTTATAGT TTCTGTGGCC AAGCCCATTC CTGAAGAACT GGGGATGGTT CAAGATGTTG CATTTGTTGA CAAGGCTGTG TGTCGGAATA ATGGCTTCTT CTCTTATCAC ATGCCCAACT GGTTTGGCAC TACAAAATAT GTGAAGCCTC TGGTGCAGAA GCTCTGTACG CACGAACAGA TGATGTGCAG CAAAACCTGC TACAACTCAG TGAACATTGC CTTTCTGATT GACGGCTCCA GCAGTGTTGG AGATAGCAAT TTCCGCCTCA TGCTAGAATT TGTTTCTAAC ATAGCGAAGA CATTTGAAAT CTCAGACATT GGAGCCAAGA TAGCTGCTGT ACAGTTCACT TATGACCAGC GCACCGAGTT CAGTTTCACT GACTATAATA CCAAAGAGAA CGTCCTAGCT GTCCTAGCGA ACATCCGCTA CATGAGTGGT GGCACAGCTA CTGGTGATGC CATCGCCTTT ACTGTTAGAA ATGTATTTGG TCCCATAAGG GACAGCCCCA ACAAAAACTT CCTGGTTATT GTCACAGATG GGCAGTCCTA TGATGATGTC CGAGGCCCTG CTGCAGCTGC CCATGATGCA GGTATCACCA TCTTCTCTGT TGGTGTGGCT TGGGCACCGC TGGATGACCT GAGAGATATG GCCTCTAAAC CCAAAGAGTC ACACGCTTTC TTTACCAGAG AGTTCACAGG GTTAGAACCA ATTGTCTCTG ACGTCATCAG AGGCATTTGT AGAGACTTCT TAGAATCCCA GCAATAACCG ATACTCTGAC AACTCAAGGA ATACGTGCAA GGGGATCTAA TGTGCAAATT ATATTCTCAA TGCCTATGTA ACTTTATAGC TTACCAGTGT CAAAAAATGC GTCCACAGCT GTTTAAAGCA AATGAATATT CATGTGATGC TCACAATTTA GATTGGCCGA GACTTGATAA TCAGGCCCTT AGAAACTCAG GAAAGAAGAG TTGTCATGGA TTAACATTGG GAGTTCAAAT ATGCATTCAA GTGGATAGGT AAGCTACACA GCTCAATAAA AGAACCTGGC GCTTACACAC AAAGCACTGT TCCCTCTTTA ATCACTCTGC ATTGACCATG CAAGGAAAAC AGAACAGCTT TTAAACACAG Corrected Replacement Sheet Page 4 of 9 Morton et al. 09/394,264

ATCAAGTATA CATATTTTGA CCCATGTGGA TGTTTTCTTA AAACCAGCCA AGAACAGACA GCTGTTATTA TGTGCACTAG CCATAACTAC ACATTATATG GAATCATATA TCAAGCTTCT TTTGTAGTGT GTTTTCATAA CTTGATGGCT GAAATACCAC ACTGAGTAAA GGTAGGATTG CCTGGTATTT TTCTATTTAT ATCCTTAATT TTATGTGTAT AGACAGGCAT GTACTCCGAG GACTAAGAAA ATGTTTAAGC AGATAACTTT TTTTTTTTTGA AAAAAAAAGAT GTGTCAAGTA TTGTAACCGA AAAAATACAC AGCTTAATAG CTTGGCTGTC AGCAATAAAA CTGCTAGTGA CTAAG

FIG. 2B

Mouse Coch-5B2 Amino Acid Sequence

1 MPSSRIPALC LGAWLLLLL PRFARAEGAV PIPVTCFTRG LDIRKEKADV LCPGGCSLEE FSVFGNIVYA SVSSICGAAV HRGVIGTSGG PVRVYSLPGR ENYSSVDANG IQSQMLSRWS ASFAVTKGKS STQEATGRAV STAHPPSGKR LKKTPEKKTG NKDCKADIAF LIDGSFNIGQ RRFNLQKNFV GKVALMLGIG TEGPHVGLVQ ASEHPKIEFY LKNFTSAKDV LFAIKEVGFR GGNSNTGKAL KHTAQKFFTA DTGVRKGIPK VVVVFIDGWP SDDIEEAGIV AREFGVNVFI VSVAKPIPEE LGMVQDVAFV DKAVCRNNGF FSYHMPNWFG TTKYVKPLVQ KLCTHEQMMC SKTCYNSVNI AFLIDGSSSV GDSNFRLMLE FVSNIAKTFE ISDIGAKIAA VQFTYDQRTE FSFTDYNTKE NVLAVLANIR YMSGGTATGD AIAFTVRNVF GPIRDSPNKN FLVIVTDGQS YDDVRGPAAA AHDAGITIFS VGVAWAPLDD LRDMASKPKE SHAFFTREFT GLEPIVSDVI RGICRDFLES QQ*

FIG. 2C

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1	MSAAWIPALGLG VCLLLLPGPAGSEGAAPIAITCFIRGLDIRKEKADV	48
1	. PSSRCAWLLRF.RAVPV	50
49	LCPGGCPLEEFSVYGNIVYASVSSICGAAVHRGVISNSGGPVRVYSLPGR	98
51	ĠT	100
99	${\tt ENYSSVDANGIQSQMLSRWSASFTVTKGKSSTQEATGQAVSTAHPPTGKR}$	148
101	$\dots \dots \dot{A} \dots \dot{R} \dots \dot{S} \dots$	150
149	$\verb LKKTPEKKTGNKDCKADIAFLIDGSFNIGQRRFNLQKNFVGKVALMLGIG $	198
151		200
199	${\sf TEGPHVGLVQASEHPKIEFYLKNFTSAKDVLFAIKEVGFRGGNSNTGKAL}$	248
201		250
249	KHTAQKFFTVDAGVRKGIPKVVVVFIDGWPSDDIEEAGIVAREFGVNVFI	298
251	À.†	300
299	${\tt VSVAKPIPEELGMVQDVTFVDKAVCRNNGFFSYHMPNWFGTTKYVKPLVQ}$	348
301	À	350
349	${\tt KLCTHEQMMCSKTCYNSVNIAFLIDGSSSVGDSNFRLMLEFVSNIAKTFE}$	398
351		400
399	${\tt ISDIGAKIAAVQFTYDQRTEFSFTDYSTKENVLAVIRNIRYMSGGTATGD}$	
401		450
	${\small \verb AISFTVRNVFGPIRESPNKNFLVIVTDGQSYDDVQGPAAAAHDAGITIFS }$	
451	À	500
	$\begin{array}{c} {\tt VGVAWAPLDDLKDMASKPKESHAFFTREFTGLEPIVSDVIRGICRDFLES} \\ \cdot \\ \end{array}$	
501	Ř	550
549	QQ* 550	
551	552	

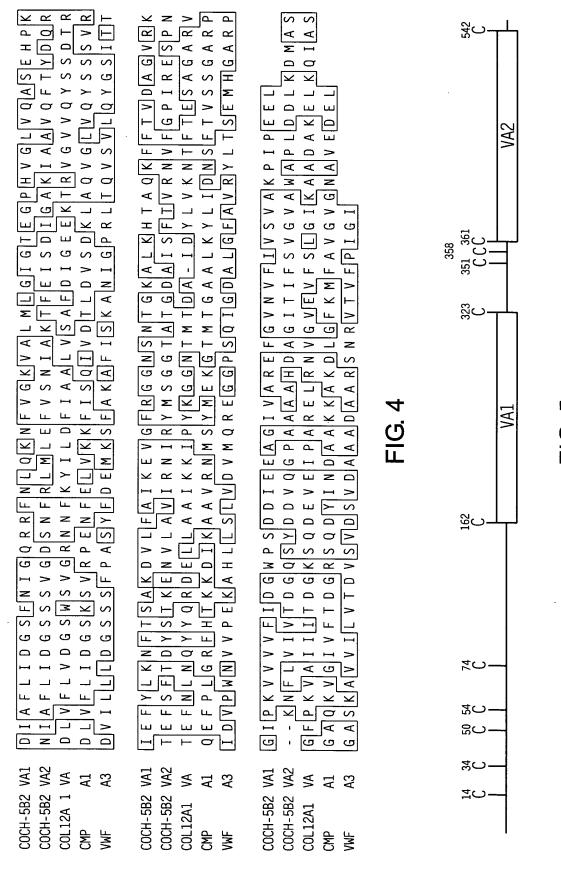
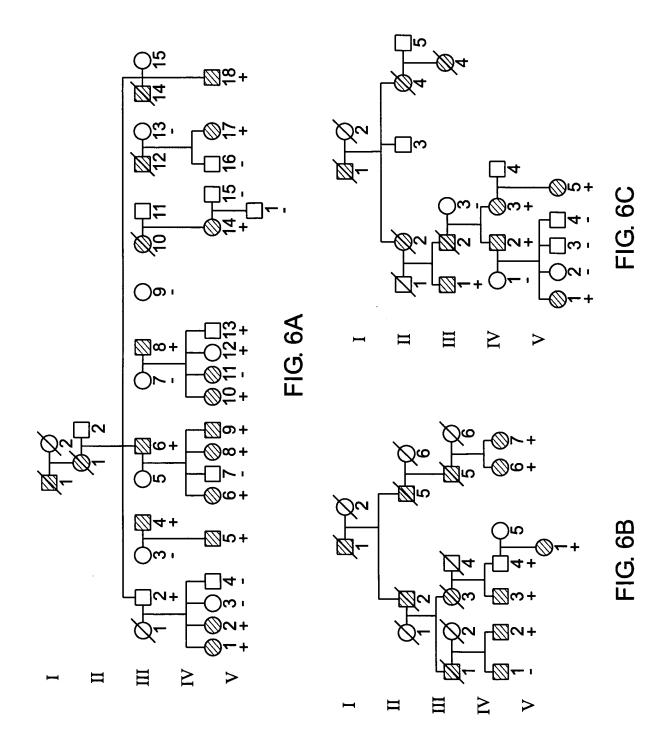
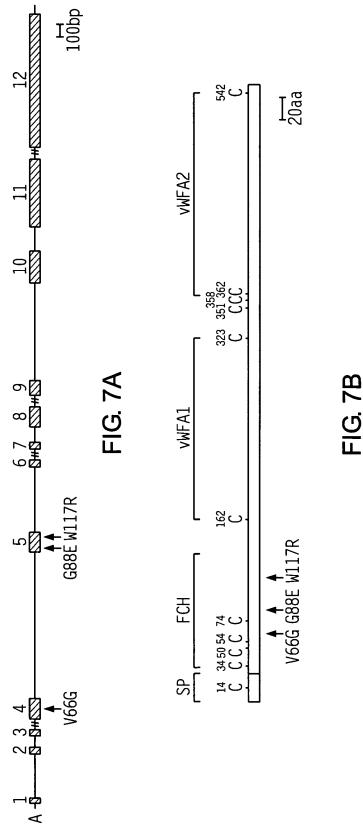


FIG. 5





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1 MSAAWIPALGLGVC LLLLPGPAGSEGAAPIAITÖFTRG LDIRKEKADVLÖPGGÖPLEEFSVYGNIWYA 6
Coch-5B2 (Chicken) 1 Q F A P . L F C G S A R D S S . S N L T E
JOSKAVDFDVG.PVRI
69 SVSSI įČįGAAVHRGVISNSGIGPVRVYSLPGRENYSSVDANGI QSQMLSRĮMĮSASFTVTKGKSST- QEATGQAVSTAHPPTGKRLKKTPEKKTG 158
71 GT
I T . A Q T Q P A . H
369 ELVi_RI.A.KLP[A.H.VNNGPYSDFLGS.LK.EE.KSLARRFDYVRAGKS.
159 NKDįČKADIAFLIDGSFNIGQRRFNLQKNFVGKVALMLGIGTEGPHVGLVQASEHPKIEFYLKNFTSAKDVLFAIKEVGFRGGNSNTGKALK 249
156 <u></u>
250 HTAQKFFTVDAGVRKGIPKVVVVFIDGWPSDDIEEAGIVAREFGVNVFIVSVAKPIPEELGMVQDVTFVDKAV <mark>ic</mark> rnngffsyhmpnwfgtt 340
52A.TA.T
247 .ASMEN.AIILL
341 KYVKPLVQKLICTHEQMMICSKTICYNSVNIAFLIDGSSSVGDSNFRLMLEFVSNIAKTFEISDIGAKIAAVQFTYDQRTEFSFTDYSTKENVL 431
43 A
338
432 AVIRNIRYMSGGTATGDAISFTVRNVFGPIRESPNKNFLVIVTDGQSYDDVQGPAAAAHDAGITIFSVGVAWAPLDDLKDMASKPKESHAF 529
434 LA
429 SAV. OKV. DGAVKDGAE.RT. 519
523 FTREFTGLEPIVSDVIRGIÇRDFLESQQ. • 550
525qM.P
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